



Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type New
Wastewater Type Sewage
Facility Type SFTF

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0261122
APS ID 642280
Authorization ID 1552171

Applicant, Facility and Project Information

Applicant Name	<u>Train Collectors Assoc</u>	Facility Name	<u>Toy Train Museum</u>
Applicant Address	<u>PO Box 248</u>	Facility Address	<u>300 Paradise Lane</u>
	<u>Strasburg, PA 17579-0248</u>		<u>Ronks, PA 17572-9537</u>
Applicant Contact	<u>Stacey Leigh</u>	Facility Contact	<u>Stacy Leigh</u>
Applicant Phone	<u>(717) 687-8623</u>	Facility Phone	<u>(717) 687-8623</u>
Client ID	<u>263116</u>	Site ID	<u>703962</u>
SIC Code	<u>4952</u>	Municipality	<u>Paradise Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Lancaster</u>
Date Application Received	<u>December 12, 2025</u>	WQM Required	<u>Issued</u>
Date Application Accepted	<u>December 26, 2025</u>	WQM App. No.	<u>WQG01360901</u>
Project Description	<u>Renewal application for an existing SFTF.</u>		

Summary of Review

The facility located at 300 Paradise Ln is an existing local toy train museum in Lancaster County. The existing facility uses a small flow treatment system to treat the sewage generated by employees and visitors of the museum.

Currently, the facility is using two (2) 5,000 gal flow equalization tanks, which then flow to two (2) 1,000 **GPD** aerobic tanks. After being treated by the aerobic tanks, the effluent will be distributed to four (4), two (2) tank recirculating systems before being disinfected by two (2) 6 gpm UV filters, prior to discharge.

The Department has reviewed the application in order to ensure that the facility does not receive or discharge a flow greater than 2,000 GPD or exceed the specified limits of CBOD5, pH, Total Suspended Solids, and Fecal Coliform prescribed in the permit. As per 25 Pa. Code § 92a.53, all applicable effluent limits and standards are considered in development of the permit. The limits noted in the permit suggest that any applicable water quality standards will not be violated.

The limits discussed in the permit are based off of several factors that were determined by the Standard Operating Procedure for Small Flow Treatment Facilities (SOP No. BCW-PMT-003).

The TSS limits were prescribed based on The Department's Water Quality Antidegradation Implementation Guidance ID No. 391-0300-002

The Fecal Coliform limits listed in the permit were required by the Bureau of Clean Water, as stated in Chapters 92a and 93.

Based on the review outlined in this fact sheet, it is recommended that the NPDES permit be drafted. Also, it is recommended that the WQM permit be issued upon issuance of the final NPDES permit.

Commented [AS1]: should this be GPD or gal?

Approve	Deny	Signatures	Date
		Jared Lescavage / Project Manager	December 26, 2025
x		Scott M Arwood Scott M. Arwood, P.E. / Environmental Engineer Manager	12/30/2025

Summary of Review

The facility was previously issued coverage under the same permit number. However, the application for renewal was submitted after the expiration of the NPDES permit. Therefore, the facility will be issued the NPDES permit with the same number, under the specification of a “New” submission.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP’s discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.002
Latitude	39° 59' 28.36"	Longitude	-76° 9' 14.54"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Pequea Creek (WWF)	Stream Code	7505
NHD Com ID	57464639	RMI	
Drainage Area	.05	Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs)	0.00198	Q ₇₋₁₀ Basis	StreamStats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	7-K	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	NUTRIENTS, ORGANIC ENRICHMENT, SILTATION		
Source(s) of Impairment	AGRICULTURE, AGRICULTURE, AGRICULTURE		
TMDL Status	Final	Name	Pequea Creek
Background/Ambient Data		Data Source	
pH (SU)			
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Public Water Supply Intake	PPL Holtwood Power Plant		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI	9.43 mi	Distance from Outfall (mi)	34.66

Changes Since Last Permit Issuance: Permit expired. Issuance of "New" NPDES.

Other Comments: **EFFLUENT LIMITATIONS**

a. Standard Operating Procedure (SOP)

Existing effluent limitations for all pollutants, except pH (S.U.) were established based on the Department's dry stream guidance, *Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers* (391-2000-014). These limits are also consistent with recommended effluent limitations specified in the Department SOP, *New and Reissuance Individual SFTF NPDES Permits* (SOP No. BPNPSM-PMT-003). pH limits will remain in the permit per the EPA's anti-backsliding policy (40 CFR § 122.44(l)(1)) and are required by 40 CFR § 133.102(c).

b. Water Quality-Based Effluent Limitations (WQBELs)

When the permit was first issued, the previous Writer utilized the water quality model, WQM 7.0 version 1.0a. to determine if recommended technology limits provided in the dry stream guidance are adequate to protect water

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quality standards in the receiving stream. The model was properly completed and indicates that those limits assigned by the guidance are protective of water quality and no WQBELs are necessary for CBOD5, NH3-N and D.O. The following table shows a summary of the previous modeling effort:

Parameter	Discharge Concentration (mg/L)	Effluent Limitations		
		30-day Average (mg/L)	Maximum (mg/L)	Minimum (mg/L)
CBOD ₅	25	#Error		
NH ₃ -N	25	18.75	37.5	
Dissolved Oxygen	5			N/A

Commented [AS2]: was it listed that way in the previous permit?

c. Total Maximum Daily Loads (TMDLs)

The current TMDL developed by SRBC does not have WLAs for this discharge. Several correspondences between EPA and the Department during the last permit issuance indicated that the discharge from this facility will contribute 25 lb/year of Total Phosphorus to the total TMDL (i.e., < 1%) and the current permit contains the reopener clause, indicating that the permit will be reopened to reflect the allocated phosphorus loading once the TMDL has been revised based on the collected Total Phosphorus data required by the permit. The table below contains a summary of DMRs, showing monthly average concentrations of Total Phosphorus.

	2010			2011			2012		
	Flow Avg Mon (MGD)	Flow Max (MGD)	TP Avg. Mon (mg/L)	Flow Avg Mon (MGD)	Flow Max (MGD)	TP Avg. Mon (mg/L)	Flow Avg Mon (MGD)	Flow Max (MGD)	TP Avg. Mon (mg/L)
Jan	N/A	N/A	N/A	ND	ND	ND	N/A	N/A	N/A
Feb				N/A	N/A	N/A			
Mar				ND	ND	ND			
Apr				0.000371	0.00288	0.23			
May				0.000255	0.000616	0.33			
Jun				0.0004	0.0012	0.12			
Jul	0.000372	0.000821	11.5	0.000335	0.000750	0.12	0.000470	0.001275	3.23
Aug	0.000349	0.000759	0.36	0.000437	0.000950	0.21	0.000522	0.001368	0.35
Sept	0.000295	0.000741	0.28	0.000461	0.001149	0.08	0.000315	0.001272	0.55
Oct	0.000374	0.001508	0.21	0.000350	0.001261	0.19	0.000335	0.001144	0.55
Nov	0.000229	0.000533	0.69	0.000223	0.000861	0.16	0.000167	0.000437	0.15
Dec	0.000219	0.000522	0.55	0.000253	0.000635	0.96	0.000236	0.000579	0.14

Note: ND: No Discharge, N/A: No DMRs Available to review.

	2013		
	Flow Avg Mon (MGD)	Flow Max (MGD)	TP Avg. Mon (mg/L)
Jan	ND	ND	ND
Feb	0.000133	0.000342	0.08
Mar	0.000143	0.000346	0.20
Apr	0.000291	0.001900	0.51
May	0.000228	0.001112	0.67

Based on the data provided in past DMRs, the discharge does not significantly contribute TP levels to the total TMDL (i.e., average less than 4 mg/L of TP). However, since this is a point source discharger and the permit already contains the reopener clause in regard to the TMDL revision, effluent monitoring for TP and the following reopener clause will still be maintained in the permit in order to obtain more data for TMDL revision:

The phosphorus data collected by the requirements of this permit will be used to revise the Pequoa Creek Total Maximum Daily Load (TMDL) for the purpose of including the National Toy Train Museum facility with an allocated phosphorus mass load. Once the TMDL has been revised, this permit will be reopened to reflect the allocated phosphorus loading.

d. Other Comments

Since the facility utilizes UV disinfection, Total Residual Chlorine (TRC) limit is not applicable. A routine monitoring for UV transmittance (%) is not required for SFTFs or SRSTPs.

ANTI-DEGRADATION REQUIREMENTS

25 Pa Code § 93.9o classifies Unnamed Tributaries to Pequea Creek (Basins, Eshleman Run to RM 3.35) as a warm water fishes / migratory fishes surface water. Although some of downstream unnamed tributaries to Pequea Creek are classified as High-Quality (HQ) surface waters, Pequea Creek from downstream of the receiving stream is not considered special protection water (i.e., HQ or EV). Accordingly, no special protection waters are impacted by this discharge. Based on the abovementioned requirements, the effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected.

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Compliance History	
Summary of DMRs:	Past year of DMRs have been received and are in compliance. Noted that since August 2024, TP limits have tested >1 mg/L consistently. At this time no TP numerical limit will be added, but will be monitored for future permit renewals.
Summary of Inspections:	N/A

Other Comments: **None**

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
CBOD5	XXX	XXX	XXX	10	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	10	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	Report	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None